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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/822,295

DATE: 01/25/2002

TIME: 16:51:27

Input Set : N:\Crf3\RULE60\09822295.raw Output Set: N:\CRF3\01252002\I822295.raw

SEQUENCE LISTING

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3 (1) GENERAL INFORMATION:
            (i) APPLICANT: Bahija Jallal
     5
                            Gregory D. Plowman
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            (ii) TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
     Ŷ
                                     PTP04 RELATED DISORDERS
    10
           (iii) NUMBER OF SEQUENCES: 18
    12
            (iv) CORRESPONDENCE ADDRESS:
    15
                  (A) ADDRESSEE: Lyon & Lyon
    17
                  (B) STREET: 633 West Fifth Street
    18
                              Suite 4700
                                                            19
                  (C) CITY: Los Angeles
     20
                  (D) STATE: California
     21
                  (E) COUNTRY: U.S.A.
     22
                  (F) ZIP: 90071-2066
     23
             (V) COMPUTER READABLE FORM:
     26
                  (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
     28
                                   st.orage
     29
                  (B) COMPUTER: IBM Compatible
     30
                  (C) OPERATING SYSTEM: IBM P.C. DOS 5.0
     31
                  (D) SOFTWARE: FastSEQ for Windows 2.0
     32
            (vi) CURRENT APPLICATION DATA:
     35
                  (A) APPLICATION NUMBER: US/09/822,295
C--> 37
                  (B) FILING DATE: 02-Apr-2001
C--> 38
                  (C) CLASSIFICATION:
     39
           (vii) PRIOR APPLICATION DATA:
     42
                  (A) APPLICATION NUMBER: 09/081,345
     44
                  (B) FILING DATE:
     45
          (viii) ATTORNEY/AGENT INFORMATION:
     48
                   (A) NAME: Warburg, Richard J.
     50
                   (B) REGISTRATION NUMBER: 32,327
     51
                   (C) REFERENCE/DOCKET NUMBER: 234/253
     52
            (ix) TELECOMMUNICATION INFORMATION:
     55
                   (A) TELEPHONE: (213) 489-1600
     57
                   (B) TELEFAX: (213) 955-0440
     58
                   (C) TELEX: 67-3510
     59
     64 (2) INFORMATION FOR SEQ ID NO: 1:
              (i) SEQUENCE CHARACTERISTICS:
     66
                   (A) LENGTH: 3580 base pairs
     68
                   (B) TYPE: nucleic acid
     63
                   (C) STRANDEDNESS: single
     71)
                   (D) TOPOLOGY: linear
     71
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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73

RAW SEQUENCE LISTING DATE: 01/25/2002 PATENT APPLICATION: US/09/822,295 TIME: 16:51:27

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76	AAGAGAAATT	CTGCAGAAGT	TCCTCCATGA	GGCCCAAAGC	AAGAAAATTA	CTAAAGAGGA	120
77	GTTTGCCAAT	GAATTTCTGA	AGCTGAAAAG	GCAATCTACC	AAGTACAAGG	CAGACAAAAC	130
78	CTATCCTACA	ACTGTGGCTG	AGAAGCCCAA	GAATATCAAG	AAAAACAGAT	ATAAGGATAT	240
79	TTTGCCCTAT	GATTATAGCC	GGGTAGAACT	ATCCCTGATA	ACCTCTGATG	AGGATICCAG	300
80	CTACATCAAT	GCCAACTTCA	TTAAGGGAGT	ITATGGACCC	AAGGCTTATA	TIGCCACCCA	3 n ()
81	GGGTCCTTTA	TCTACAACCC	TCCTGGACTT	CTGGAGGATG	ATTTGGGAAT	ATAGTGTCCT	420
82	FATCATTGTT	ATGGCATGCA	TGGAGTATGA	AATGGGAAAG	AAAAGTGTG	AGCGCTACTG	430
83	GGCTGAGCCA	GGAGAGATGC	AGCTGGAATT	TGGCCCTTTC	TCTGTATCCT	GTGAAGCTGA	540
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86	CCCTATTCTT	GAGCTCATCT	${\tt GGGATGTACG}$	TTGTTACCAA	GAGGATGACA	GTGTTCCCAT	720
87	ATGCATTCAC	TGCAGTGCIG	GCTGTGGAAG	GACTGGTGTT	ATTTGTGCTA	TTGATTATAC	780
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90	CAATGCTGTA	TTAGAACTAT	TTAAGAGACA	GATGGATGTT	ATCAGAGATA	AACATTCTGG	960
91	AACAGAGAGT	CAAGCAAAGC	ATTGTATTCC	TGAGAAAAAT	CACACTCTCC	AAGCAGACTC	1020
92	TTATTCTCCT	AATTTACCAA	AAAGTACCAC	AAAAGCAGCA	AAAATGATGA	ACCAACAAAG	1080
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98	AATAACACGG	ACCAAATCAA	CTCCTTTTGA	ATTGATACAG	CAGAGAGAAA	CCAAGGAGGT	1440
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10	3 TGGTACCAG	T TCTAAGATG	- F CTCTTGATT	T ACCTGAGAA	G CAAGATGGA	A CTGTTTTTCC	1740
10	4 TTCTTCTCT	G TTGCCAACA'	r cctctacat	C CCTCTTCTC	T TATTACAATI	CACATGATTC	1800
10	5 TTTATCACT	G AATTCTCCA	A CCAATATTT	C CTCACTATT	G AACCAGGAG1	CAGCTGTACT	1860
10	6 AGCAACTGC	T CCAAGGATA	G ATGATGAAA	T CCCCCCTCC	A CTTCCTGTAC	C GGACACCTGA	1920
10	7 ATCATTTAT	T GTGGTTGAG	G AAGCTGGAG	A ATTCTCACC	A AATGTTCCC	A AATCCT PATC	1980
10	9 CTCACCTGT	G AAGGTAAAA.	A TTGGAACAT	C ACTGGAATG	G GGTGGAACAT	r CTGAACCAAA	2040
10	O CINAGUIGI	T GACTCTGTG	A TACTTAGAC	C AAGCAAGAG	T GTAAAACTC	C GAAGTCCTAA	2100
11	O ATCACAACT	A CATCAAGAT	C GTTCTTCTC	C CCCACCTCC	T CTCCCAGAA	A GAACTCTAGA	2160
11	1 CTCCCTTCTT	T CTTGCCGAT	G AAGATTGTA	T GCAGGCCCA	A TCTATAGAA	A CATATICTAC	2220
11	T GIGGIICII	T CACACCATG	G AAAATTCAA	C ATCTTCAAA	A CAGACACTG	A AGACTCCTGG	2280
11	2 INGUINICC	C ACAAGGAGT	A AGAGTTTGA	A AATTTTGCG	A AACATGAAA	A AGAGTAICTG	2340
11	1 TAATTCTTC	C CCACCAAAC	A AGCCTGCAG	A ATCTGTTCA	G TCAAATAAC	r ccagcicati	2400
11	4 TAATICIIG	T COMPONENCEA	A ACCETTET	C AAAACCCAA	A GGACCAAGGA	A ATCCACCACC	2460
11	5 TUIGAAIII	T GGIIIIGCA	A ACCOLLIL A ACTCCAGAT	ΤΑΑΤΑΑΤΑΥ Τ'	A TGGGCTGCA	A GTACACCTGC	2520
11	D AACTTGGAA	T ATTIMATAN T ACTACAATA	C TOTOCAGAI	A AATAAGTGC	T CTATATGCA	T AATATCAAAT	2580
11	7 AAATAAAAC	T COMANDOMIA	TACINGIIN	T TAAAAGAAA	A GCAAAATGC	C AATAAGTGCC	2640
11	o ATGAAGATA	T GUIAAIGIG TOTATATOTO	1 TANTAGETT	A GTTCAAAAC	T GCAAATAAA	A GTTTGTCACT	2700
11	AGITTTGCA	.i liicalaic	C TATATCALIC	A ACACTTTANA	G AATGGATTT	A TITTTCATT	2760
12	O TGAGCTTAT	G TACAGAATG	C IAIAIGAGA T CTTTTTACTT	A ACACITITA	A CATAAACTT	C AAAAGGTTTG	2820
12	T TTGCCAGTT	A ITITIATII	7 V T T T T T T T T T T T T T T T T T T	T TECCELLA	A TACTATADA	A AGTTAAAAA	2880
1.4	L TAAGATTIG	m mamagamma	C VVEVCVVVC	T CCTCTTCAC	A ATGACTATT	C CCTGACAGTT	2940
1.2	3 AAACTTACI	T TGTGGGTTG	C AATACAAAC	. GCICIIGAC	A AIGHCIAII	5 551511611611	

RAW SEQUENCE LISTING

DATE 01/25/2002 TIME 16:51.27 PATENT APPLICATION: US/09/822,295

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125 A' 126 GA 127 CA 128 A' 129 A 130 A 131 G 132 A 133 A	TTTTGC TTAAGAA AATGTAA AATTCTA TTGTATA ACTCTAA ACTTCCC ACATGTA GGGCAA TCAATA (i	AAA TG ACA AGA ATG TT GTT TA ATT TT CCT AA AGT AT ATT GA AAC TT ORMATI) SEQU (A) (B)	AGAAAGAATTATAGAATT	ATTA ICAA ATCA CAGG GAAT ACTA TAAA AGTA GTTG OR S CHA GTH: E: a	TATT CTGA ATGA ATCT AATTA AAAT CATC TTAT TTAT	TAIT AAAT AAAT TTTCA AAAT TATT AAAAA D NO ERIS ami aci S: S	TAG A AGA T AGA T TGA A TGG (TTT A TGT '	AATAF GATAF CATO ATATO CAGG ATTT ICTT ICTC AAAA :	AGTTTATCCTATCCATCCATCCATCCATCCATCCATCCAT	TT AA TT TI AA TT GCT GC TG TT AA CT AA CT AA CT AA CT AA TT	CCAA TGGT TTTA CCATA TTTA	AGTO AGCA ATCTA AGAA ACAAA	A ACCA AATA GAA	TAAAT AGATA CAATC ATCCA CTTTT	TAC ATAA CAGA GTTC ACCT FAGA CAAT	3000 3060 3120 3180 3240 3300 3360 3420 3480 3540 3580
145		(D)	TOP	OLOG	Y: 1	inea	r									
147	(ii) MOLI	CULE	TYP	E: p	epti	.de									
149	_			0.00	CDID	rn T ∩ N	1. 97	Q ID	NO:	2:		a1	7 l a	Cln	Sar	
151	(xi Met As	p Gln	Arg	Glu	Ile	Leu	Gln	Lys	Pne	Leu	Asp	G I II	Ата	15	DCI	
152				_					1 ()							
154	1 Lys Ly	s Ile		Lys	Glu	GIu	Phe	A1a 25	ASII	Giu	FIIC	11.7.7	30		1	
155	Arg Gl		20	_	.	T	λla	20 Acn	Lvc	Thr	Tyr	Pro		Thr	Val	
158																
159	Ala Gl	35	.	1	7 an	тіо	40 T-70	T.VS	Asn	Ara	Tyr	Lys	Asp	Ile	Leu	
161																
162	50 Pro Ty)	(T)	Cor	λνα	Val	Glu	Leu	ser	Leu	Ile	Thr	Ser	Asp	Glu	
164																
165	65 Asp Se	ar Car	Tur	Tle	Asn	Ala	Asn	Phe	Ile	Lys	Gly	Val	Tyr	Gly	Pro	
167				OF					91)					_		
168 170	Lys A	la Tvr	Tle	Ala	Thr	Gln	Gly	Pro	Leu	Ser	Thr	Thr	Leu	Leu	Asp	
171			4 0 0					1115								
173	Phe T	rp Arq	Met	Ile	Trp	Glu	Tyr	Ser	Val	Leu	Ile	Ile	Val	мет	Ald	
174																
176	Cys M	115 et Glu	Tyr	Glu	Met	Gly	Lys	Lys	Lys	Cys	Glu	Arg	туг	пр	Ala	
177																
179	Glu P	30 ro Gly	r Glu	Met	Gln	Leu	Glu	Phe	Gly	Pro	Pne	Ser	Val	JCI	160	
180																
182	Glu A	la Glu	ı Lys	Arg	Lys	Ser	Asp	Tyr	170	TIE	Arg	1111	II C. CL	175		
183				1 (=					1 / 1/					-		
185	Lys P	he Ası			Thr	Arg	Thr	11e 185	тАт	GIII	tile	1110	190	- 1 -		
186			180		**- 1	Desc	Con	LOS	Tle	Asn	Pro	Ile	Leu	Glu	Leu	
188		ro Asi														
189	_	19: [rp As)	A		Tite	∠UU cln	Glu	Asn	Asp	Ser	Val	Pro	Ile	Cys	
191																
192	7	210 His Cy	c Co:	~ 1\1=	Glv	. (Vc	s Glv	Ara	Thr	Gly	Val	Ile	Cys	Ala	Ile	
194		iis Cy	2 2G1	. Ala	230	~ I ~		7		235					240	
195	225				200											

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PATENT APPLICATION: US/09/822,295
TIME: 16:51:27

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198 200	Ser	Val	Phe	Ser	245 Leu	Ile	Arg	Glu	Met	Arg	Thr	Gln	Arg	Pro 270	Ser	Leu
201 203	Val	Gln	Thr	260 Gln	Glu	Gln	Tyr	Glu	Leu	Val	Tyr	Asn	Ala	Val	Leu	Glu
204	Tou	Dha	275	Arg	Gln	Met	Asp	280 Val	Ile	Arg	Asp	Lys	His	Ser	Gly	Thr
206 207	Leu	290	ц	Ala			295	Tlo	Dro	Glu	Lvs	Asn	His	Thr	Leu	Gln
210	Glu	Ser	Gln	Ala	Lys	H15	Cys	116	110	0.20	315					320
211	305	3	Cor	Tyr	Ser	Pro	Asn	Leu	Pro	Lys	ser	Thr	Thr	Lys	Ala	Ala
213	Ala	Asp	Ser	тут	325					330				~1 u	333 Ser	Ser
214 216	Lys	Met	Met	. Asn 340	Gln	Gln	Arg	Thr	345	Met S	Glu	lie	Lys	350	Len	Val
$\frac{217}{219}$	Ser	Phe	Asp	340 Phe	Arg	Thr	Ser	Glu	ı Ile	e Sei	r Ala	Lys	365))	neu	,
220			355	5		_		360) r Cai	r Phe	- Asr) Phe	Lei	ı Glu	Leu	Asn
222	Leu	His	Pro	Ala	Lys	Ser	375	; 1111 ;	L Se.	L 1110	- 110	380	ı			
223		370) Dla	- Nar	TTT	Δgr	ارد Ala	a Asi	o Thi	r Th	r Met	Lys	Tr	Glr	Thr	Lys 400
225	Туг	: Ser	Pne	e ASP	пу-	390)	•	-		395	5 .	a.1	0	. T.O.	400 AGD
226	385 315) Dhe	> Pro	o Ile	val	L Gly	y Glu	ı Pr	o Le	u Gl	n Ly:	s His	G L	n Sei	11°	a Asp
228 229	HIC	LIIC			405	5				41	0	- Co	c T 17	e Pro	o Val	L Asn
231	Lei	ı Gl	y Se	r Lei	ı Leı	ı Phe	e Gl	u Gl	у Су	s Se	r As	n se	r hà.	43)	L Asn
232	пс	. 0	2	420)			_	42	5	1 Dr	o Ili	⊃ Th	r Ar	g Th:	r Lys
234	Ala	a Al	a Gl	y Ar	д Ту	r Ph	e As	n Se	r ьу	s va	1 11	0 11.	44	5	-	r Lys
235			43	5			т1	44	0 n G1	n Ar	a Gl	u Th	r Ly	s Gl	u Va	l Asp
237	se	r Th	r Pr	o Ph	e Gl	u Le	u 11 45	e G1	.11 01	.11 11-	9 -	46	0			
238		45	0	. 30	∽ Dh	a Se	r TV	r Le	eu Gl	u S∈	er Gl	n Pr	o Hi	s As	p Se	r Cys 480
240	Se	r Ly	S GI	u AS	11 F11	47	0				47	5		a -	a 1	480
241	46	o Va	1 G1	u Me	t Gl	n Al	a Gl	n Ly	s Va	al Me	et Hi	s Va	1 S€	er Se	.r ai	a Glu 5
243 244	PII	e va	.1 01	u 110	48	5				4.9	90	- 01	n т1	ο Δτ	a As	n Ala
246	i Le	u As	n Ty	r Se	r Le	eu Pr	το Τχ	r As	sp Se	er Ly	ys Hi	S GI	11 11	.e ni 51	.0	n Ala
247	,	-	_	50	0			_	51	05 ~~ ^	1 a T.4	-11 G1	v Va	al Ty	r Se	er Tyr
249	S€	er As	sn Va	al Ly	s Hi	s Hi	Ls As	sp Se	er s 20	el A	ra n	-u -	52	25		er Tyr
250)		51	15	1 0	1 7.	an Da	J. ra Ti	zu vr P	he S	er Se	er Ti	p P	ro Pi	ro S€	er Gly
≟ 53	2 I I	e Pi	co Le	eu Va	II G	Lu A:	511 F	35	1			54	10			77 h ea
25	3	5.	30 C	ar It	70 M4	et So	er Le	eu A	sp L	eu P	ro G	lu Ly	/s G	ln As	sp G.	Ly Thr 560
. 5	5 Th	nr Se	er 50	er r)	/5 IN	5	50		•		5	55	-		a Di	o Ser
25 35	h 54	1 D	he P	ra Se	er S	er L	eu L	eu P	ro T	hr S	er S	er T	nr S	er L	eu Pi	ne Ser 75
25 55	n R Ad	al P	116 1	10 0	5	65				5	70	0.0	~ Dr	o Th	r Asi	n fle
۶۰.	 3 T∀	r Tv	r As	n Se.	r Hi	s As	p Se	r Le	u Se	r Le	u As	п ѕе	ı Pl	بر 5	90	n Ile
26	3			5	80				7	85	al I	eu A	la T	hr A	la P	ro Arg
26	6 S	er S	er L	eu L	eu A	sn G	In G	itu S	ser <i>P</i> 500	ild V	ل ندین		6	05		ro Arg
26	7		5	95		10 5	ro r	oro I	oro T	Leu F	ro V	al A	rg T	hr P	ro G	lu Ser
26	9 I	le A	sp A	sp G	Lu I	те ь	.TO E	15	10 1			6	20		_	- -
2.7	'0	, 6	10	tal 17	al C	ilu 6	o Lu A	la (Gly (Glu I	he S	Ser P	ro P	sn V	al P	ro Lys
27	'2 P	ne I	ie v	ial V	ar c	i Lu	, , , , ,		4							

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/822,295

DATE: 01/25/2002 TIME: 16:51:27

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    Gly Gly Thr Ser Glu Pro Lys Lys Phe Asp Asp Ser Val Ile Leu Arg
276
278
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     Pro Ser Lys Ser Val Lys Leu Arg Ser Pro Lys Ser Glu Leu His Gln
279
281
                                680
     Asp Arg Ser Ser Pro Pro Pro Pro Leu Pro Glu Arg Thr Leu Glu Ser
282
284
     Phe Phe Leu Ala Asp Glu Asp Cys Met Gln Ala Gln Ser Ile Glu Thr
285
287
     Tyr Ser Thr Ser Tyr Pro Asp Thr Met Glu Asn Ser Thr Ser Ser Lys
288
290
     Gln Thr Leu Lys Thr Pro Gly Lys Ser Phe Thr Arg Ser Lys Ser Leu
291
 293
                                     745
     Lys Ile Leu Arg Asn Met Lys Lys Ser Ile Cys Asn Ser Cys Pro Pro
 294
 296
                                  760
     Asn Lys Pro Ala Glu Ser Val Gln Ser Asn Asn Ser Ser Ser Phe Leu
 297
 299
    Asn Phe Gly Phe Ala Asn Arg Phe Ser Lys Pro Lys Gly Pro Arg Asn
                              775
 300
 302
                          790
 303 785
 305 Pro Pro Pro Thr Trp Asn Ile
                      805
 314 (2) INFORMATION FOR SEQ ID NO: 3:
         (i) SEQUENCE CHARACTERISTICS:
 316
               (A) LENGTH: 23 base pairs
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               (B) TYPE: nucleic acid
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               (C) STRANDEDNESS: single
  320
               (D) TOPOLOGY: linear
  321
               (D) OTHER INFORMATION: The letter "Y" stands for C or T.
          (ix) FEATURE:
  323
  325
  326 The letter "V" stands for A, C or
  327 G.
  328 The letter "R" stands for A or G.
  329 The letter "N" stands for A, C, G \,
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
  330 or T.
                                                                           23
  332
  334 GAYTTYTGGV RNATGRTNTG GGA
  338 (2) INFORMATION FOR SEQ ID NO: 4:
           (i) SEQUENCE CHARACTERISTICS:
  340
                (A) LENGTH: 23 base pairs
  342
                (B) TYPE: nucleic acid
  343
                (C) STRANDEDNESS: single
   344
                (D) TOPOLOGY: linear
   345
                (D) OTHER INFORMATION: The letter "S" stands for C or G.
       (ix) FEATURE:
   347
   349
   350 The letter "Y" stands for C or T.
   351 The letter "N" stands for A, C, G
   352 or T.
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DATE: 01/25/2002 VERIFICATION SUMMARY TIME: 16:51:28 PATENT APPLICATION: US/09/822,295

Input Set : N:\Crf3\RULE60\09822295.raw Output Set: N:\CRF3\01252002\1822295.raw

L.37 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:38 M:220 C: Reyword misspelled or invalid format, [(A) APPLICATION NO. L:38 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6